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Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

## **Complete if Known**

Application Number	Unassigned
Filing Date	October 17, 2003
First Named Inventor	C. Lutz
Art Unit	2811 (prior case)
Examiner Name	C. Nguyen (prior case)
Attorney Docket Number	ARC920020035US2

## **U.S. PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
an		US- 4,987,312	01-22-1991	Eigler	
an		US- 5,144,148	09-01-1992	Eigler	
an		US- 5,166,919	11-24-1992	Eigler	
ch		US- 5,323,376	06-21-1994	Eigler	
on		US- 6,339,227	01-15-2002	Ellenbogen	
an		US- 6,348,700	02-19-2002	Ellenbogen et al.	
on		US- 6,621,100	09-16-2003	Eppstein et al.	
cn		US- 6,472,248	10-29-2002	Shiozaki et al.	
an		US- 6,307,147	10-23-2001	Bird et al.	
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## **FOREIGN PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

Date  
Considered

06-08-04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	Unassigned
		Filing Date	October 17, 2003
		First Named Inventor	C. Lutz
		Group Art Unit	2811 (prior case)
		Examiner Name	C. Nguyen (prior case)
		Attorney Docket Number	ARC920020035US2
Sheet	2	of	3

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
an		R. P. Cowburn et al., "Room Temperature Magnetic Quantum Cellular Automata", Science, Vol. 287, February 25, 2000, pp. 1466-1468.	
an		I. Amlani et al., "Digital Logic Gate Using Quantum-Dot Cellular Automata", Science, Vol. 284, April 9, 1999, pp. 289-291.	
an		C. P. Collier et al., "Electronically Configurable Molecular-Based Logic Gates", Science, Vol. 285, July 16, 1999, pp. 391-394.	
an		D. M. Eigler et al., "Positioning single atoms with a scanning tunnelling microscope", Nature, Vol. 344, April 5, 1990, pp. 524-526.	
an		L. Bartels et al., "The evolution of CO adsorption on Cu(111) as studied with bare and CO-functionalized scanning tunneling tips", Elsevier Science B. V., Vol. 432, 1999, pp. 621-626.	
an		R. Landauer, "Advanced Technology and Truth in Advertising", Elsevier Science B. V. (North Holland), Physica A, Vol. 168, 1990, pp. 75-87.	
an		J. Timler et al., "Power gain and dissipation in quantum-dot cellular automata", Journal of Applied Physics, Vol. 91, No. 2, January 15, 2002, pp. 823-831.	
an		Y. Okawa et al., "Linear chain polymerization initiated by a scanning tunneling microscope tip at designated positions", Journal of Chemical Physics, Vol. 115, No. 5, August 1, 2001, pp. 2317-2322.	
an		D. M. Eigler et al., "An atomic switch realized with the scanning tunnelling microscope", Nature, Vol. 352, August 15, 1991, pp. 600-603.	
an		K. E. Drexler, "Nanosystems Molecular Machinery, Manufacturing, and Computation", A Wiley-Interscience publication, 1992, pp. 342-371.	
an		Saraf et al., "Self assembled nano-devices using DNA", United States Patent Application Publication number US 2002/0098500 A1, July 25, 2002, Appl. No. 09/972,958.	

Examiner Signature		Date Considered	6-8-04
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[illegible]

Examiner Signature	<i>[Signature]</i>	Date Considered	6-8-04
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